

# LOWPASS FILTER FORMED IN A MULTI-LAYER CERAMIC

## Abstract

A lowpass filter formed in a multi-layered substrate includes a first capacitor formed on at least one layer of the multi-layered substrate and being electrically connected to a first node, a first inductor being electrically connected to the first capacitor at the first node, and a second inductor being electrically connected to the first inductor and the first capacitor at the first node. In the lowpass filter, negative mutual inductance exists between the first inductor and the second inductor.